

For each question, you need to find the answer and show your work. Each problem is worth 3 points: one for the correct answer and two for showing your work. For some problems, you may just need to write out how you know you have the correct answer.

1. Choose the best buy among the following. State why you chose the price.
\$0.56 for 6 apples \$0.99 for 9 apples \$1.08 per dozen \$1.42 for 14 apples

2. Choose the best buy among the following. State why you chose the price.
\$1.98 for 7 oranges \$3.18 for per dozen \$4.58 for 18 oranges \$5.28 for 2 dozen

3. It costs Matt Mitarnowski \$54.54 to put 18 gallons of diesel into his truck. If the station does not change its prices, how much will he pay to fill his truck's tank with 26.5 gallons of diesel?

4. The ratio of a baseball team's wins to losses is 7 to 4. The team has won 77 games. If there are 162 games in the season, how many games do they have left to play?

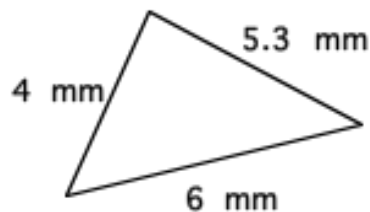
5. It costs a school district \$87.23 to buy a textbook. There are j juniors in the district. Write an equation that could be used to find C , the total cost of textbooks for all juniors in the district. Then, calculate the cost if each junior currently enrolled at A-C received this textbook. There are 124 juniors currently enrolled at A-C.

6. The total playing time of the new Jimmy Eat World (Invented - Deluxe Edition) album is about 64 minutes. Write an equation that could be used to find M , the average length of one track for t tracks on the album? Then find the actual average for the 16 tracks on the album

7. Fuzzy Jeff's age, F , is 1.3 times that of his younger brother, Shecky, who is S years old. Find an equation to show this relationship and test it out to make sure it works.

Open-Ended Question: Answer the following question on a separate piece of paper. Make sure as you answer the open-ended question that you show your work AND explain how you know you are doing the correct work. YOU MUST EXPLAIN WHAT YOU ARE DOING!!!

Use the figure to the right.



A. A similar triangle has a perimeter that is 3 times greater than the one shown above. What is the perimeter of the larger triangle?

B. The perimeter of a second larger triangle is in the ratio of 5 to 2 with the one shown above. What is the perimeter of this larger triangle?